some very peculiar and very desirable characteristics, being available, when worked with brass or copper, for purposes unknown to ordinary zinc—among others, that of making metallic cartridges. The cost of running the large engine was so great that for a time it was feared these works would have to close up. An advantageous contract and the discovery of the new vein have averted this calamity to South Bethlehem. The works occupy ten acres of ground, and their cost has been as follows: Oxide works, $125,000; spelter works, $100,000; rolling mill, $51,000. Total, $276,000.—*Public Ledger.*

ALGERIAN IRON ORES. MINES OF AÏN-SEDMA, NEAR COLLO.

Translated for the JOURNAL.

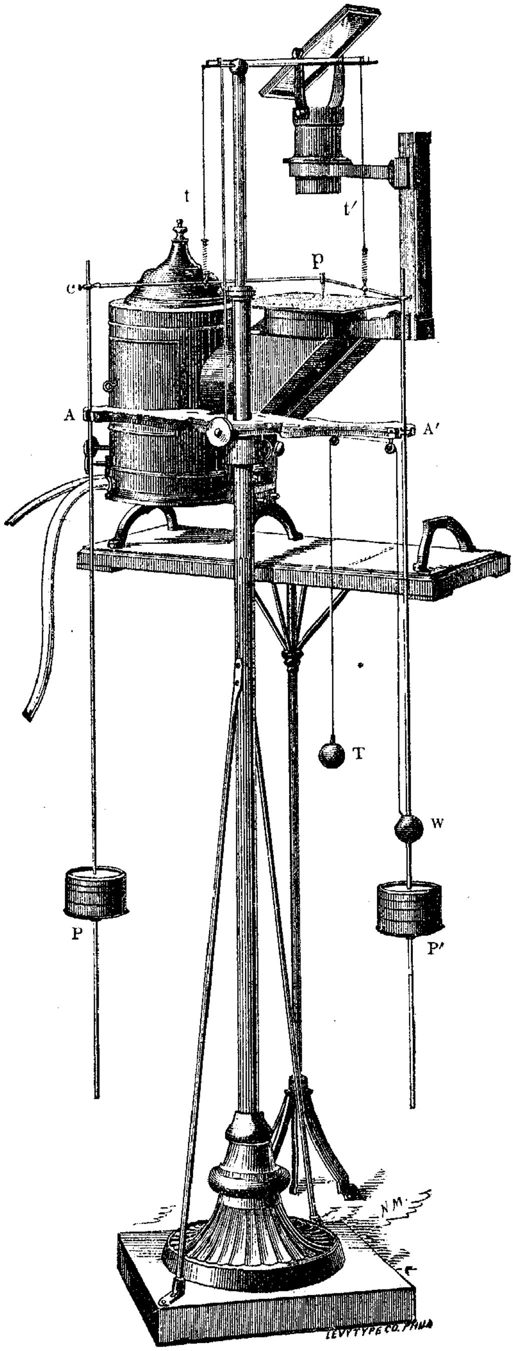
Results of analyses made at the School of Mines, Paris, Aug. 21, 1876, by Mons. A. Carnot, Engineer of Mines, Director of the Assay Bureau.

	Samples No. 3.	No. 9.	No. 16.	No. 20.	No. 21.
Silica,	5·	2·	2·60	2·	2·30
Alumina,	1·60	......	......	trace	trace
Peroxide of iron,	89·60	99·	96·60	98·	98·60
Oxide of manganese,	trace	......	trace	trace	trace
Lime,	......	0·30	0·20	......	trace
Magnesia,	0·15	0·15	......	......	......
Sulphuric acid,	Absent in all the specimens				
Phosphoric acid,	0·10	0·05	trace	0·05	0·05
Loss by calcination,	3·30	......	......	......	......
Totals,	99·75	101·50	99·40	100·05	100·95
Pure iron,	62·12	68·64	66·98	67·95	68·36

Names of the ores:

No. 3 Ledoux bed (micaceous; "*fer oligiste*").
9 Almont Idid (magnetic oxide).
16 Carassa Incline (magnetic oxide).
20 Carassa Level.
21 Laquais.

Nos. 9, 16, 20, 21 contain suboxide of iron (*fer oxydulé*), whence a slight augmentation in the percentage of iron.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